



09/ 832929

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PATENT  
Customer No. 22,852  
Attorney Docket No. 6832.0013

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re U.S. Patent No.: 6,926,898 )  
Inventors: )  
Craig A. Rosen and William A. Haseltine )  
Issue Date.: August 9, 2005 )  
For: ALBUMIN FUSION PROTEINS )

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**REQUEST FOR CERTIFICATE OF CORRECTION**

Pursuant to 35 U.S.C. §§ 254 and 255, and 37 C.F.R. §§ 1.322 and 1.323, this is a request for a Certificate of Correction in the above-identified patent. Some of the mistakes identified in the appended Form occurred through the fault of the Patent Office, as clearly disclosed by the records of the application which matured into this patent.

For example, the priority claims to Provisional Application Nos. 60/256,931, filed December 21, 2000; 60/199,384, filed April 25, 2000; and 60/229,358, filed April 12, 2000, were deleted in an Amendment filed February 4, 2004, and a Corrected Filing Receipt reflecting the change was mailed by the PTO on February 13, 2004. However, the issued patent was printed with the priority claims in the title page under item (60).

Furthermore, the omitted U.S. Patent Documents under item (56) (References Cited) in the title page, were cited by Applicants in an Information Disclosure Statement

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filed April 5, 2004, and the Office returned the initialed Form PTO 1449 with the Supplemental Notice of Allowance mailed June 29, 2004.

The omitted OTHER PUBLICATIONS under item (56) (References Cited) in the title page, were also cited by Applicants in the Information Disclosure Statement filed April 5, 2004, and the Office returned the initialed Form PTO 1449 by facsimile on July 23, 2004.

The issued patent was printed without the Examiner's Amendment to the specification mailed March 3, 2005, with the Supplemental Notice of Allowance. The attached Certificate of Correction amends the specification according to the Examiner's Amendment.

Furthermore, the issued patent reflects the original Sequence Listing filed rather than the Substitute Sequence Listing submitted on August 20, 2004. The Sequence Listing in the attached Certificate of Correction is identical to the Substitute Sequence Listing filed on August 20, 2004, and is also identical to the computer readable copy of the Substitute Sequence Listing also submitted on August 20, 2004. Thus, the correction contains no new matter.

Other mistakes identified in the appended Form are of a clerical or typographical nature, or of minor character, and resulted from an error made in good faith by patentees. A check in the amount of \$100 (the fee set forth in 37 C.F.R. § 1.20(a)) is attached. Should a check not be appended or should any additional fees be needed, authorization is hereby given to charge any fees due in connection with the filing of this request to Deposit Account No. 06-0916.

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Two (2) copies of PTO Form 1050 are appended. The complete Certificate of Correction involves thirty-five (35) pages. Issuance of the Certificate of Correction containing the correction is earnestly requested.

Please charge any required fees not included herewith to our deposit account 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,  
GARRETT & DUNNER, L.L.P.

Dated: December 23, 2005

By: Charles E Van Horn  
Charles E. Van Horn  
Reg. No. 40,266

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**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE OF CORRECTION**

PATENT NO. 6,926,898

Page 1 of 35

APPLICATION NO.: 09/832,929

ISSUE DATE: August 9, 2005

INVENTOR(S): Craig A. Rosen and William A. Haseltine

It is hereby certified that an error or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Under item (60) (Related U.S. Application Data) of the title page, delete the text beginning with "Provisional application No. 60/256,931" to and ending "provisional application No. 60/229,358, filed on Apr. 12, 2000."

Under item (56) (References Cited) of the title page and under U.S. PATENT DOCUMENTS beginning on page 1, insert:

--	2003-0022308 A1	1/2003	Fleer et al.
	2003-0036170 A1	2/2003	Fleer et al.
	2003-0036171 A1	2/2003	Fleer et al.
	2003-0036172 A1	2/2003	Fleer et al.
	2003-0054554 A1	3/2003	Becquart et al.
	2003-0082747 A1	5/2003	Fleer et al.
	2003-0104578 A1	10/2001	Ballance
	2004-0010134 A1	4/2001	Rosen et al.
	09/832,501	4/2001	Ballance et al.
	09/833,041	4/2001	Rosen et al.
	09/833,111	4/2001	Rosen et al.
	09/833,117	4/2001	Rosen et al.
	09/833,118	4/2001	Rosen et al.
	10/702,536	11/2003	Fleer et al.
	10/702,636	11/2003	Fleer et al. --

MAILING ADDRESS OF SENDER

U.S. Patent No. 6,926,898

Finnegan, Henderson, Farabow,  
Garrett & Dunner, L.L.P.  
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Washington, D.C. 20001-4413

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Under item (56) (References Cited) of the title page and under OTHER PUBLICATIONS beginning on page 1, insert:

- Larsson, M., et al., "Role of Annexins in Endocytosis of Antigens in Immature Human Dendritic Cells," *Immunology* 92:501-511 (1997).
- Latta, M. et al., "Synthesis and Purification of Mature Human Serum Albumin From *E. Coli*," *Bio/Technology* 5:1309-1314 (1987).
- Latta, M., et al., "Tryptophan Promoter Derivatives on Multicopy Plasmids: A Comparative Analysis of Expression Potentials in *Escherichia coli*," *DNA and Cell Biology* 9:129-137 (1990).
- Lawn, R.M., et al., "The Sequence of Human Serum Albumin cDNA and its Expression in *E. coli*," *Nucleic Acids Research* 9:6103-6113 (1981).
- Le Bras, M., et al., "Epidemiologie et Clinique des Maladies Tropicales D'importation," *La Revue de Medicine Interne* 13:205-210 (1992), with English translation.
- Leblois, H., et al., "Stable Transduction of Actively Dividing Cells via a Novel Adenoviral/Episomal Vector," *Molecular Therapy* 1:314-322 (2000).
- Lee, C-H., et al., "Sodium Pertechnetate Tc99m Antral Scan in the Diagnosis of Retained Gastric Antrum," *Arch. Surg.* 119: 309-311 (1984).
- Lee, C-L., et al., "Preparation and Characterization of Polyethylene-Glycol-Modified Salmon Calcitonins," *Pharmaceutical Development and Technology*, 4(2): 269-275 (1999).
- Lee, W-C., et al., "Identification and Characterization of a Nuclear Localization Sequence-Binding Protein in Yeast," *Proc. Natl. Acad. Sci. USA* 86:8808-8812 (1989).
- Lee, Y-H., et al., "Comparison of Effective Renal Plasma Flow (ERPF) and Endogenous Creatinine Clearance (Ccr) in Evaluation of the Differential Kidney Function: An in Vivo Study," *Chin. Med. J. (Taipei)* 49:147-152 (1992).
- Lei, H-Y., et al., "An Antigen-specific Hypersensitivity Which Does Not Fit Into Traditional Classification of Hypersensitivity," *The Journal of Immunology* 143:432-438 (1989).
- Levitt, D., et al., "Toxicity of Perfluorinated Fatty-Acids for Human and Murine B Cell Lines," *Toxicology and Applied Pharmacology* 86:1-11 (1986).

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Lew D.B., et al., "Mitogenic Effect of Lysosomal Hydrolases on Bovine Tracheal Myocytes in Culture," *The Journal of Clinical Investigation* 88:1969-1975 (1991).

Lewis, C., et al., "Is Sexual Dysfunctoin in Hypertensive Women Uncommon or Understudied?" *American Jour of Hypertension*," 11:733-735 (1998). --

Under item (57) (ABSTRACT) of the title page, "disordrs" should read --disorders--.

In the Specification

Col. 143, line 26, delete "As exhibited in Table 2, most", and insert --Most--.

Col. 143, line 31, delete "Table 2".

In the Claims

Col. 340, line 40, delete "an".

Col. 340, line 47, delete "an".

In the Sequence Listing

Delete the Sequence Listing beginning in Col. 299, beginning with the text "<160> NUMBER OF SEQ ID NOS: 72" to and ending "<400> SEQUENCE: 72

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
1 5 10 15"

in Col. 340 and insert the following Sequence Listing:

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<211> 33

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<213> Artificial Sequence

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<223> primer useful to clone human growth hormone cDNA

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Glu Asn Phe Lys Ala Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln
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cag tgt cca ttt gaa gat cat gta aaa tta gtg aat gaa gta act gaa 144
Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu
35 40 45

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Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys
50 55 60

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tca ctt cat acc ctt ttt gga gac aaa tta tgc aca gtt gca act ctt	240
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65 70 75 80	
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85 90 95	
gag aga aat gaa tgc ttc ttg caa cac aaa gat gac aac cca aac ctc	336
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ccc cga ttg gtg aga cca gag gtt gat gtg atg tgc act gct ttt cat	384
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115 120 125	
gac aat gaa gag aca ttt ttg aaa aaa tac tta tat gaa att gcc aga	432
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Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser	
180 185 190	
tct gcc aaa cag aga ctc aaa tgt gcc agt ctc caa aaa ttt gga gaa	624
Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu	
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Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser	
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Cys	Ile	Ala	Glu	Val	Glu	Asn	Asp	Glu	Met	Pro	Ala	Asp	Leu	Pro	Ser	
	290					295				300						
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 515 520 525  
 Leu Val Glu Leu Val Lys His Lys Pro Lys Ala Thr Lys Glu Gln Leu  
 530 535 540  
 Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys  
 545 550 555 560  
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<223> primer used to generate XhoI and ClaI site in pPPC0006

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gcctcgagaa aagagatgca cacaagagtg aggttgctca tcgatttaaa gatttggg 58

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Tyr Ser Arg Ser Leu Asp Lys Arg
      20

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<211> 22
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<210> 60
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tctcccggaac tcttgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg      180

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tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg	240
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ggctgaatgg caaggagtag aagtgcaagg tctccaacaa agccctccca acccccatcg	360
agaaaacccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc	420
catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctgggc aaaggcttct	480
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga	540
ccacgcctcc cgtgctggac tccgacggct ctttcttctt ctacagcaag ctcaccgtgg	600
acaagagcag gtggcagcag gggaaacgtct tctcatgctc cgtgatgcat gaggctctgc	660
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 <220>  
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 <222> (3)  
 <223> Xaa equals any

<400> 74  
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 <223> forward primer useful for generation of a synthetic gamma activation site (GAS) containing promoter element

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cccgaaatat ctgccatctc aattag	86

<210> 76  
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<212> DNA  
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 <223> reverse primer useful for generation of a synthetic gamma activation site (GAS) containing promoter element  
  
 <400> 76  
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 <400> 77  
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 gccctaact ccgcccagtt ccgcccattc tccgcccatt ggctgactaa ttttttttat 180  
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
 ttttgagggc ctaggctttt gcaaaaagct t 271  
  
 <210> 78  
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 <213> Artificial Sequence  
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 <223> primer useful for generation of a EGR/SEAP reporter construct  
  
 <400> 78  
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 <212> DNA  
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 <400> 79  
 gcgaagcttc gcgactcccc ggatccgctt c 31

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<210> 80
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<400> 80
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<210> 81
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<223> forward primer useful for generation of a vector containing the NF-KB
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ccatctcaat tag                                     73

<210> 82
<211> 256
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<213> Artificial Sequence
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<400> 82
ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct      60

caattagtca gcaaccatag tcccgccctt aactccgccc atcccgcccc taactccgcc      120

cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga      180

ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg      240

cttttgcaaa aagctt                                     256

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**UNITED STATES PATENT AND TRADEMARK OFFICE**  
**CERTIFICATE OF CORRECTION**

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APPLICATION NO.: 09/832,929

ISSUE DATE: August 9, 2005

INVENTOR(S): Craig A. Rosen and William A. Haseltine

It is hereby certified that an error or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Under item (60) (Related U.S. Application Data) of the title page, delete the text beginning with "Provisional application No. 60/256,931" to and ending "provisional application No. 60/229,358, filed on Apr. 12, 2000."

Under item (56) (References Cited) of the title page and under U.S. PATENT DOCUMENTS beginning on page 1, insert:

--	2003-0022308 A1	1/2003	Fleer et al.
	2003-0036170 A1	2/2003	Fleer et al.
	2003-0036171 A1	2/2003	Fleer et al.
	2003-0036172 A1	2/2003	Fleer et al.
	2003-0054554 A1	3/2003	Becquart et al.
	2003-0082747 A1	5/2003	Fleer et al.
	2003-0104578 A1	10/2001	Ballance
	2004-0010134 A1	4/2001	Rosen et al.
	09/832,501	4/2001	Ballance et al.
	09/833,041	4/2001	Rosen et al.
	09/833,111	4/2001	Rosen et al.
	09/833,117	4/2001	Rosen et al.
	09/833,118	4/2001	Rosen et al.
	10/702,536	11/2003	Fleer et al.
	10/702,636	11/2003	Fleer et al. --

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Under item (56) (References Cited) of the title page and under OTHER PUBLICATIONS beginning on page 1, insert:

- Larsson, M., et al., "Role of Annexins in Endocytosis of Antigens in Immature Human Dendritic Cells," *Immunology* 92:501-511 (1997).
- Latta, M. et al., "Synthesis and Purification of Mature Human Serum Albumin From *E. Coli*," *Bio/Technology* 5:1309-1314 (1987).
- Latta, M., et al., "Tryptophan Promoter Derivatives on Multicopy Plasmids: A Comparative Analysis of Expression Potentials in *Escherichia coli*," *DNA and Cell Biology* 9:129-137 (1990).
- Lawn, R.M., et al., "The Sequence of Human Serum Albumin cDNA and its Expression in *E. coli*," *Nucleic Acids Research* 9:6103-6113 (1981).
- Le Bras, M., et al., "Epidemiologie et Clinique des Maladies Tropicales D'importation," *La Revue de Medicine Interne* 13:205-210 (1992), with English translation.
- Leblois, H., et al., "Stable Transduction of Actively Dividing Cells via a Novel Adenoviral/Episomal Vector," *Molecular Therapy* 1:314-322 (2000).
- Lee, C-H., et al., "Sodium Pertechnetate Tc99m Antral Scan in the Diagnosis of Retained Gastric Antrum," *Arch. Surg.* 119: 309-311 (1984).
- Lee, C-L., et al., "Preparation and Characterization of Polyethylene-Glycol-Modified Salmon Calcitonins," *Pharmaceutical Development and Technology*, 4(2): 269-275 (1999).
- Lee, W-C., et al., "Identification and Characterization of a Nuclear Localization Sequence-Binding Protein in Yeast," *Proc. Natl. Acad. Sci. USA* 86:8808-8812 (1989).
- Lee, Y-H., et al., "Comparison of Effective Renal Plasma Flow (ERPF) and Endogenous Creatinine Clearance (Ccr) in Evaluation of the Differential Kidney Function: An in Vivo Study," *Chin. Med. J. (Taipei)* 49:147-152 (1992).
- Lei, H-Y., et al., "An Antigen-specific Hypersensitivity Which Does Not Fit Into Traditional Classification of Hypersensitivity," *The Journal of Immunology* 143:432-438 (1989).
- Levitt, D., et al., "Toxicity of Perfluorinated Fatty-Acids for Human and Murine B Cell Lines," *Toxicology and Applied Pharmacology* 86:1-11 (1986).

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Lew D.B., et al., "Mitogenic Effect of Lysosomal Hydrolases on Bovine Tracheal Myocytes in Culture," *The Journal of Clinical Investigation* 88:1969-1975 (1991).

Lewis, C., et al., "Is Sexual Dysfunctoin in Hypertensive Women Uncommon or Understudied?" *American Jour of Hypertension*," 11:733-735 (1998). --

Under item (57) (ABSTRACT) of the title page, "disordrs" should read --disorders--.

In the Specification

Col. 143, line 26, delete "As exhibited in Table 2, most", and insert --Most--.

Col. 143, line 31, delete "Table 2".

In the Claims

Col. 340, line 40, delete "an".

Col. 340, line 47, delete "an".

In the Sequence Listing

Delete the Sequence Listing beginning in Col. 299, beginning with the text "<160> NUMBER OF SEQ ID NOS: 72" to and ending "<400> SEQUENCE: 72

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
1 5 10 15"

in Col. 340 and insert the following Sequence Listing:

<160> NUMBER OF SEQ ID NOS: 82

<210> 1

<211> 23

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<213> Artificial Sequence

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<221> primer\_bind

<223> primer useful to clone human growth hormone cDNA

<400> 1

cccaagaatt cccttatcca ggc

23

<210> 2

<211> 33

<212> DNA

<213> Artificial Sequence

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<221> primer\_bind

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<223> primer useful to clone human growth hormone cDNA

<400> 2

gggaagctta gaagccacag gatccctcca cag

33

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<223> synthetic oligonucleotide used to join DNA fragments with non-cohesive ends.

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<211> 17

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17

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Ile Ser Ala Asp Ala His Lys Ser
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ends.

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<210> 15  
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 Glu Asn Phe Lys Ala Leu Val Leu Ile Ala Phe Ala Gln Tyr Leu Gln  
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cag tgt cca ttt gaa gat cat gta aaa tta gtg aat gaa gta act gaa 144  
 Gln Cys Pro Phe Glu Asp His Val Lys Leu Val Asn Glu Val Thr Glu  
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ttt gca aaa aca tgt gtt gct gat gag tca gct gaa aat tgt gac aaa 192  
 Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys  
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tca ctt cat acc ctt ttt gga gac aaa tta tgc aca gtt gca act ctt	240
Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu	
65 70 75 80	
cgt gaa acc tat ggt gaa atg gct gac tgc tgt gca aaa caa gaa cct	288
Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro	
85 90 95	
gag aga aat gaa tgc ttc ttg caa cac aaa gat gac aac cca aac ctc	336
Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu	
100 105 110	
ccc cga ttg gtg aga cca gag gtt gat gtg atg tgc act gct ttt cat	384
Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His	
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gac aat gaa gag aca ttt ttg aaa aaa tac tta tat gaa att gcc aga	432
Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg	
130 135 140	
aga cat cct tac ttt tat gcc ccg gaa ctc ctt ttc ttt gct aaa agg	480
Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg	
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tat aaa gct gct ttt aca gaa tgt tgc caa gct gct gat aaa gct gcc	528
Tyr Lys Ala Ala Phe Thr Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala	
165 170 175	
tgc ctg ttg cca aag ctc gat gaa ctt cgg gat gaa ggg aag gct tcg	576
Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser	
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tct gcc aaa cag aga ctc aaa tgt gcc agt ctc caa aaa ttt gga gaa	624
Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu	
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Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Arg Phe Pro	
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Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys	
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Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn Gln Asp Ser Ile Ser	
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Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser	
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Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys	
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Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys	
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Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser	
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Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala
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ctt gtt gag ctt gtg aaa cac aag ccc aag gca aca aaa gag caa ctg 1632
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aaa gct gtt atg gat gat ttc gca gct ttt gta gag aag tgc tgc aag 1680
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Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys
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Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu
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Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro
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 Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys  
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 485 490 495  
 Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp  
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ctttaaatcg atgagcaacc tcaactcttgt gtgcacnnn nnnnnnnnnn nn      52

<210> 29
<211> 24
<212> PRT
<213> Artificial Sequence
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<221> signal
<223> signal peptide of natural human serum albumin protein

<400> 29
Met Lys Trp Val Ser Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala
  1             5             10             15

Tyr Ser Arg Ser Leu Asp Lys Arg
      20

<210> 30
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<223> forward primer useful for generation of PC4:HSA albumin fusion VECTOR

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<220>
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<222> (5)..(10)
<223> BamHI restriction site
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<222> (17)..(27)
<223> Kozak sequence
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<222> (25)..(97)
<223> cds natural signal sequence of human serum albumin
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<222> (75)..(81)
<223> XhoI restriction site
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<222> (98)..(114)
<223> cds first six amino acids of human serum albumin

<400> 30
tcagggatcc aagcttcgc caccatgaag tgggtaacct ttatttcct tctttttctc 60

tttagctcgg cttactcgag ggggtgtgtt cgtcgagatg cacacaagag tgag      114

<210> 31
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<223> reverse primer useful for generation of PC4:HSA albumin fusion VECTOR
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<222> (6)..(11)
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<221> misc_feature
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<223> EcoRI restriction site
<220>
<221> misc_feature
<222> (15)..(17)
<223> reverse complement of stop codon
<220>
<221> misc_feature
<222> (18)..(25)

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<223> AscI restriction site
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<222> (18)..(43)
<223> reverse complement of DNA sequence encoding last 9 amino acids

<400> 31
gcagcggtac cgaattcggc ggccttata agcctaaggc agc 43

<210> 32
<211> 46
<212> DNA
<213> Artificial Sequence
<220>
<221> primer_bind
<223> forward primer useful for inserting Therapeutic protein into pC4:HSA
vector
<220>
<221> misc feature
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<222> (37)

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<223> n equals a,t,g, or c  
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46

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 <223> reverse primer useful for inserting Therapeutic protein into pC4:HSA  
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<223> n equals a,t,g, or c
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agtcccatcg atgagcaacc tcactcttgt gtgcacnnnn nnnnnnnnnn nnnnn      55

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  1             5             10             15

<210> 35
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<400> 35
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  1             5             10             15

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      20

<210> 36
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<212> DNA
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<221>primer_bind
<223>Degenerate VH forward primer useful for amplifying human VH domains

<400> 36
caggtgcagc tgggtgcagtc tgg                                     23

<210> 37
<211> 23
<212> DNA
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<223>Degenerate VH forward primer useful for amplifying human VH domains

<400> 37
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<210> 38
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<210> 41
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<212> DNA
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<400> 45
tgaggagacg gtgaccgtgg tccc                24

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<210> 46  
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<400> 50  
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<221>primer_bind
<223>Degenerate Vlambda forward primer useful for amplifying human VL domains

<400> 55
tcctatgtgc tgactcagcc acc                23

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<211> 23
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<211> 23
<212> DNA
<213> Artificial Sequence

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<210> 58
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
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<400> 58
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<210> 59
<211> 23
<212> DNA
<213> Artificial Sequence

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<223>Degenerate Vlambda forward primer useful for amplifying human VL domains

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aattttatgc tgactcagcc cca                23

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<223>Degenerate Jkappa reverse primer useful for amplifying human VL domains

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<210> 61
<211> 24
<212> DNA
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<223>Degenerate Jkappa reverse primer useful for amplifying human VL domains

<400> 61
acgtttgatc tccagcttgg tccc                24

<210> 62
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
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<223>Degenerate Jkappa reverse primer useful for amplifying human VL domains

<400> 62
acgtttgata tccactttgg tccc                24

<210> 63
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
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<223>Degenerate Jkappa reverse primer useful for amplifying human VL domains

<400> 63
acgtttgatc tccaccttgg tccc                24

<210> 64
<211> 24
<212> DNA
<213> Artificial Sequence
<220>
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<223>Degenerate Jkappa reverse primer useful for amplifying human VL domains

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 acgtttaatc tccagtcgtg tccc 24  
  
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 <211> 23  
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<211> 23
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<210> 71
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<400> 71
aattttatgc tgactcagcc cca 23

<210> 72
<211> 15
<212> PRT
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<220>
<221>turn
<223>Linker peptide that may be used to join VH and VL domains in an scFv.

<400> 72
Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
1 5 10 15

<210> 73
<211> 733
<212> DNA
<213> Homo sapiens

<400> 73
gggatccgga gcccaaattct tctgacaaaa ctacacatg cccaccgtgc ccagcacctg 60
aattcgaggg tgcaccgtca gtcttcctct tcccccaaaa acccaaggac accctcatga 120
tctcccggaac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg 180

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tcaagttcaa ctggtacgtg gacggcggtg aggtgcataa tgccaagaca aagccgcggg 240  
aggagcagta caacagcacg taccggtgtg tcagcgtcct caccgtcctg caccaggact 300  
ggctgaatgg caaggagtac aagtgaagg tctccaacaa agccctccca acccccatcg 360  
agaaaacat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420  
catccccgga tgagctgacc aagaaccagg tcagcctgac ctgcctgggtc aaaggcttct 480  
atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagAAC aactacaaga 540  
ccacgcctcc cgtgctggac tccgacggct ccttcttctc ctacagcaag ctcaccgtgg 600  
acaagagcag gtggcagcag gggaaagtct tctcatgtc cgtgatgcat gaggctctgc 660  
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720  
gactctagag gat 733

<210> 74

<211> 5

<212> PRT

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<221> misc\_structure

<223> membrane proximal motif of class 1 cytokine receptors

<220>

<221> misc\_feature

<222> (3)

<223> Xaa equals any

<400> 74

Trp Ser Xaa Trp Ser

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5

<210> 75

<211> 86

<212> DNA

<213> Artificial Sequence

<220>

<221> primer\_bind

<223> forward primer useful for generation of a synthetic gamma activation site (GAS) containing promoter element

<400> 75

gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60

cccgaatat ctgccatctc aattag 86

<210> 76

<211> 27

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<212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> primer\_bind  
 <223> reverse primer useful for generation of a synthetic gamma activation site (GAS) containing promoter element

<400> 76  
 gcggcaagct ttttgcaaag cctaggc 27

<210> 77  
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 <212> DNA  
 <213> Artificial Sequence  
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 <221> misc\_feature  
 <223> Synthetic GAS-SV40 promoter sequence

<400> 77  
 ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60  
 aaatatctgc catctcaatt agtcagcaac catagtccccg cccctaactc cgcccatccc 120  
 gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180  
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
 ttttgagggc ctaggctttt gcaaaaagct t 271

<210> 78  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> primer\_bind  
 <223> primer useful for generation of a EGR/SEAP reporter construct

<400> 78  
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 79  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> primer\_bind  
 <223> primer useful for generation of a EGR/SEAP reporter construct

<400> 79  
 gcgaagcttc gcgactcccc ggatccgcct c 31

MAILING ADDRESS OF SENDER

U.S. Patent No. 6,926,898

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<210> 80  
 <211> 12  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> misc\_binding  
 <223> NF-KB binding site

<400> 80  
 ggggactttc cc 12

<210> 81  
 <211> 73  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> primer\_bind  
 <223> forward primer useful for generation of a vector containing the NF-KB promoter element

<400> 81  
 gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60  
 ccattctcaat tag 73

<210> 82  
 <211> 256  
 <212> DNA  
 <213> Artificial Sequence  
 <220>  
 <221> misc\_feature  
 <223> Synthetic NF-KB/SV40 promoter

<400> 82  
 ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct 60  
 caattagtca gcaaccatag tcccggccct aactccgccc atcccgcccc taactccgcc 120  
 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240  
 cttttgcaaa aagctt 256

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